



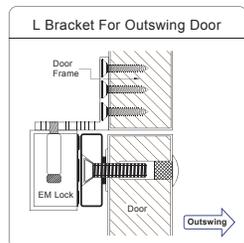
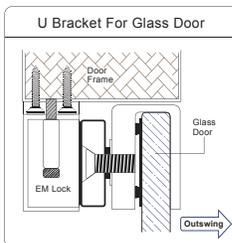
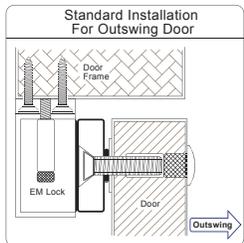
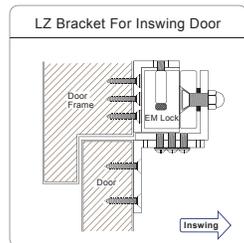
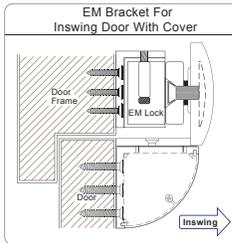
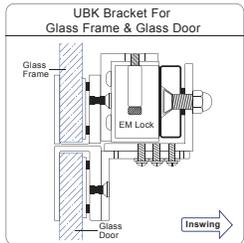
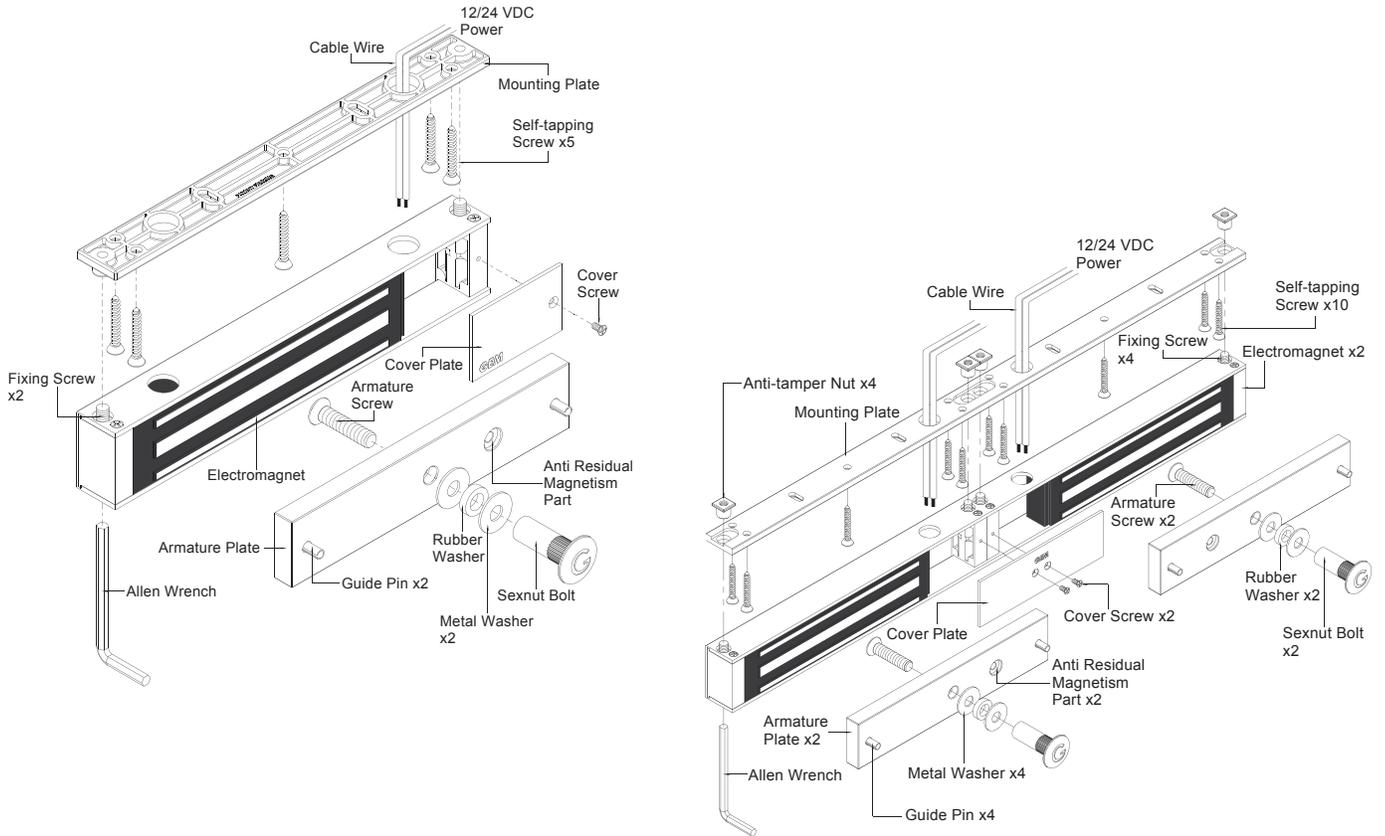
STANDARD / DOUBLE STANDARD MAGNETIC LOCK

INSTALLATION MANUAL

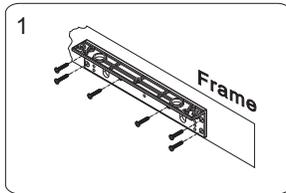
INDOOR ELECTROMAGNETIC LOCK SERIES

Spec/Model	Single Door				Double Door		
	GEM-300	GEM-600	GEM-800	GEM-1200	GEM-D600	GEM-D800	GEM-D1200
Holding Force	300lbs (136kg)	600lbs (272kg)	800lbs (363kg)	1200lbs (545kg)	600lbs (272kg)x2	800lbs (363kg)x2	1200lbs (545kg)x2
Voltage Input	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC
Current Draw	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC 250mA/24VDC	500mA/12VDC x2 250mA/24VDC x2	500mA/12VDC x2 250mA/24VDC x2	500mA/12VDC x2 250mA/24VDC x2

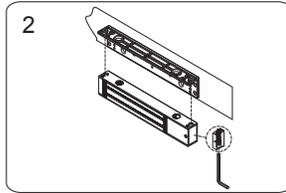
Basic Installation Concept & Accessories



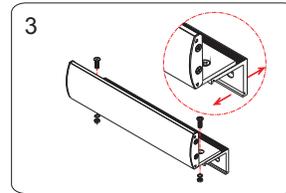
LZ bracket for Inswing doors



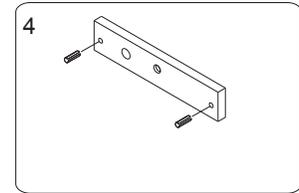
1 Find a mounting location on the door frame for the L bracket. Make sure that the door is still closeable.



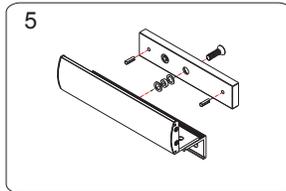
2 Use the fixing bolt to tighten the electromagnetic lock on L bracket



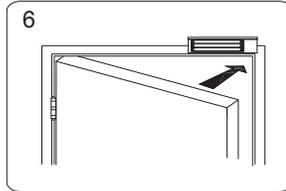
3 Assemble the Z bracket, and make sure that the position of the Z bracket is adjustable.



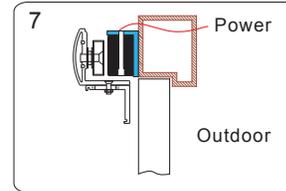
4 Insert the guide pins into the armature plate.



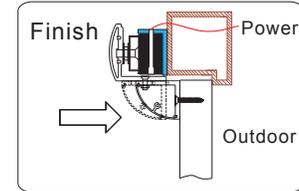
5 Fasten the armature plate to the Z bracket (Must add rubber washer)



6 Close the door and connect the power.

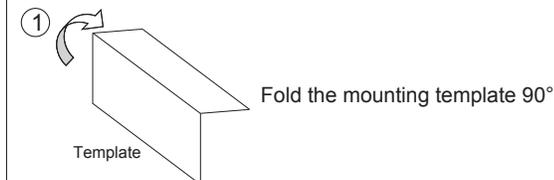


7 After the maglock attracts the armature plate, adjust the Z bracket to fit the door.

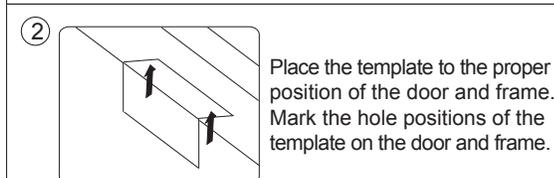


8 Fasten the Z bracket to the door

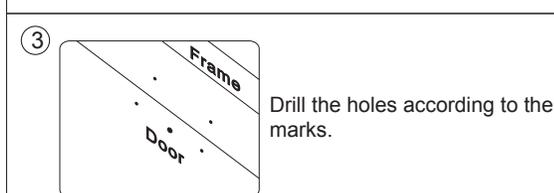
Standard Installation



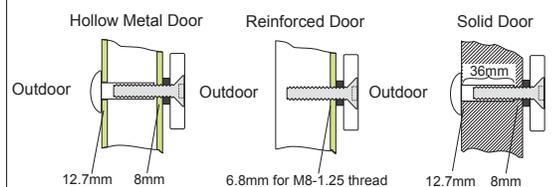
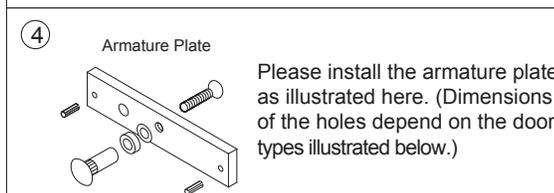
1 Fold the mounting template 90°



2 Place the template to the proper position of the door and frame. Mark the hole positions of the template on the door and frame.



3 Drill the holes according to the marks.



Hollow Metal Door
12.7mm 8mm
Drill a Ø8mm hole through door, on closing side. Enlarge to Ø12.7mm by a sexnut blot on the opening side.

Reinforced Door
6.8mm for M8-1.25 thread
Drill a Ø6.8mm hole and tap on closing side a M8x12.5 thread.

Solid Door
12.7mm 8mm 36mm
Drill a Ø8mm hole through door on closing side. Enlarge to Ø12.7mm by a sexnut blot on the opening side. The depth is 36mm.

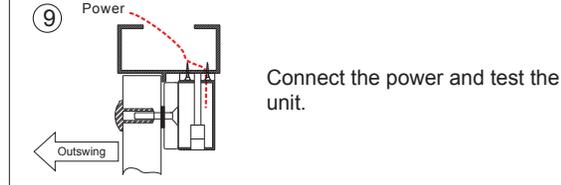
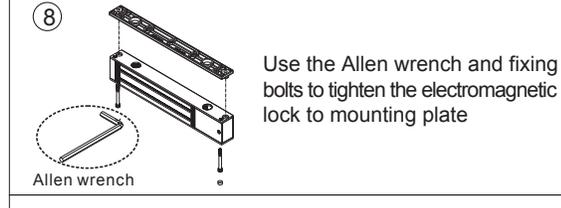
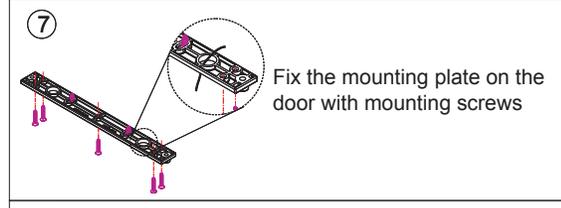
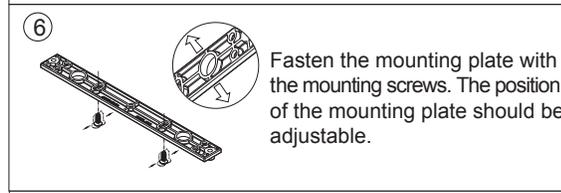
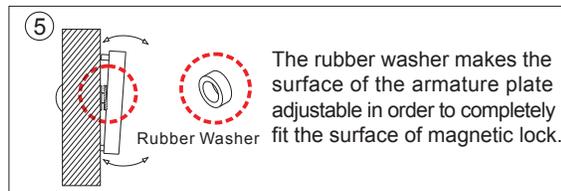
Recommendation:

For Micro EM-locks (300 LBS), maximum thickness of door is 44 mm.

For Mini EM-locks (600 LBS), maximum thickness of door is 50 mm.

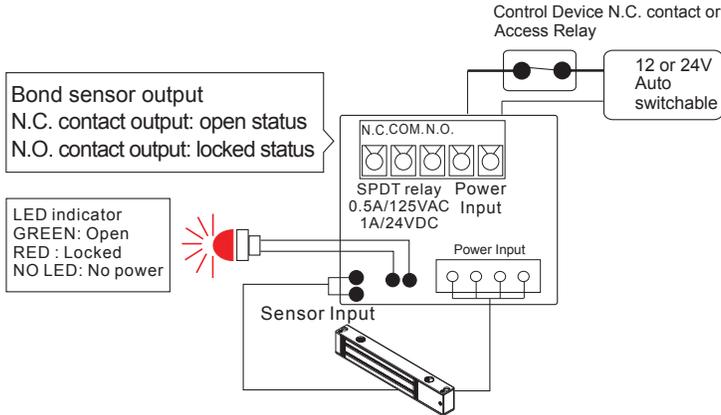
For Midi EM-locks (800 LBS), maximum thickness of door is 48 mm.

For Maxi EM-locks (1200 LBS), maximum thickness of door is 46 mm.

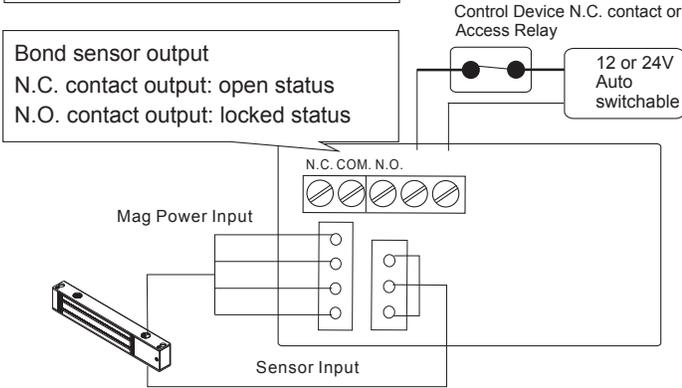


Connecting Diagram

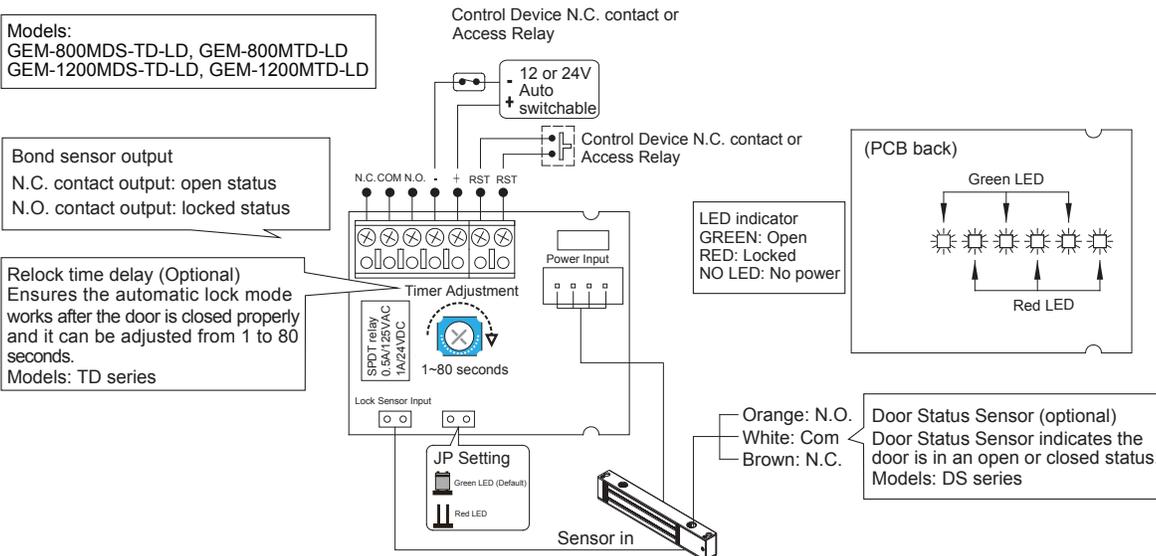
Model: GEM-300M



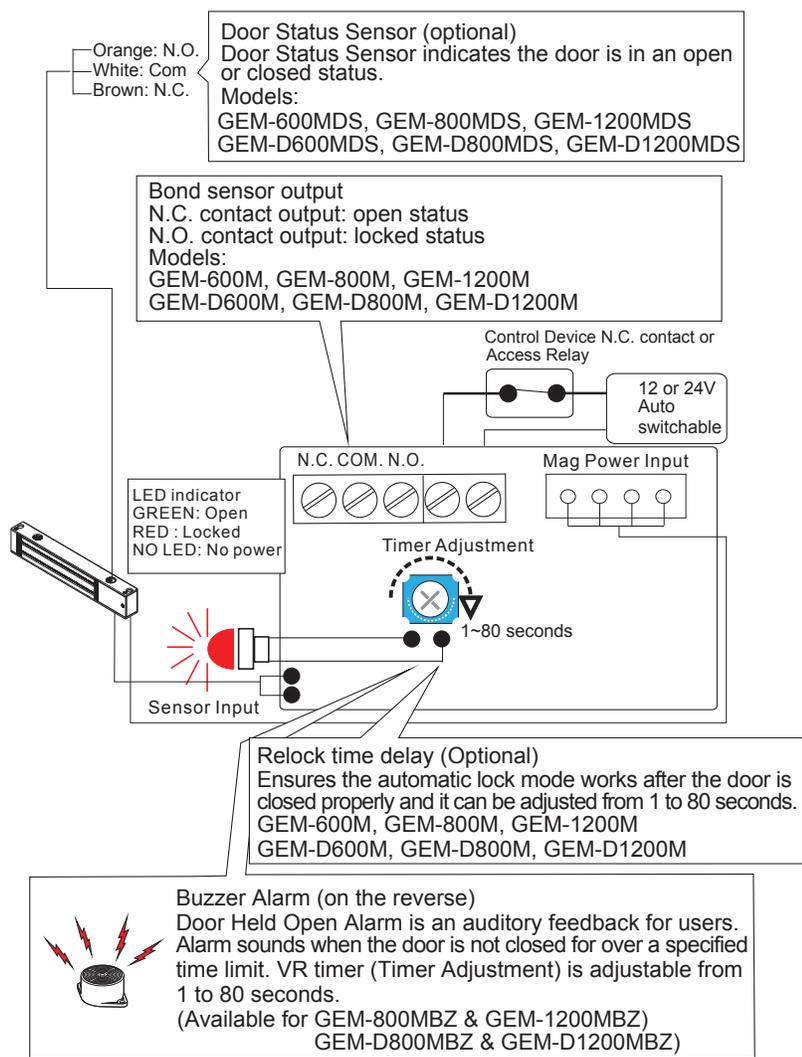
Models:
GEM-300, GEM-600, GEM-800, GEM-1200
GEM-D600, GEM-D800, GEM-D1200



Models:
GEM-800MDS-TD-LD, GEM-800MTD-LD
GEM-1200MDS-TD-LD, GEM-1200MTD-LD



Connecting Diagram



Trouble Shooting

Problem	Possible Cause	Solution
Door does not lock	No power	Make sure the wires are connected properly Check that the power supply is connected and works properly Make sure the lock switch is wired correctly (N.C.)
Low holding force	Poor contact between electromagnet and armature plate	Make sure if the armature plate is deformed Make sure if the rubber washer was used between magnet lock and armature plate Make sure the contact surfaces of the electromagnet and armature plate are clean and free from dust
	Low voltage or incorrect voltage setting	Ensure the electromagnet lock is set for the correct voltage. Check for proper voltage at the electromagnetic locks input. If low, determine if the correct wire gauge is being used to prevent excessive voltage drop.
Sensor output is not functioning	A secondary diode was installed across the electromagnetic lock	Remove any diode installed across the magnet for "spike" suppression. (The magnet is fitted with a metal oxide varistor to prevent back EMF)
	Misalignment between the armature plate and electromagnetic lock	Make sure the armature plate and electromagnetic lock are aligned correctly

WARRANTY:

The warranty period of Transmitter Solutions magnetic locks is twenty-four (24) months. This warranty shall begin on the date the keypad is manufactured. During the warranty period, the product will be repaired or replaced (at the sole discretion of Transmitter Solutions) if the product does not operate correctly due to a defective component. This warranty does not extend to (a) the case, which can be damaged by conditions outside the control of Transmitter Solutions, or (b) battery life. This warranty is further limited by the following disclaimer of warranty and liability:

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